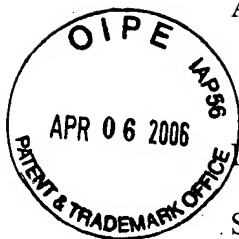


Attorney Docket No. CORR-004/02US

PATENT



## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of Ben A. HITT et al.

Examiner: Clow, Lori A.

Serial No.: 10/628,136

Art Unit: 1631

Filed: July 28, 2003

Confirmation No.: 4523

For: **QUALITY ASSURANCE/QUALITY CONTROL FOR ELECTROSPRAY  
IONIZATION PROCESSES**

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**SUPPLEMENTAL INFORMATION DISCLOSURE  
STATEMENT UNDER 37 C.F.R. §1.97(c)**

In accordance with the duty of disclosure set forth in 37 C.F.R. §1.56, Applicants hereby submit the following information in conformance with 37 C.F.R. §§1.97 and 1.98.

- ☒ Pursuant to 37 C.F.R. §1.98, a copy of each foreign and/or non-patent document cited in the attached Form PTO/SB/08 is enclosed.
- ☐ No copies of the publications listed on the attached Form PTO/SB/08 are being provided pursuant to 37 C.F.R. §1.98(d) because the publications were previously cited by or submitted to the Office in prior Application Serial No. \_\_\_\_ to which the above-identified application claims priority under 35 U.S.C. §120.
- ☒ No copies of any U.S. patents or U.S. patent application publications listed on the attached Form PTO/SB/08 are being provided pursuant to 37 C.F.R. §1.98.
- ☐ Publication(s) \_\_\_\_ listed on the attached Form PTO/SB/08 were cited in a foreign search or examination report corresponding to application serial no. \_\_\_\_ and mailed on \_\_\_\_.
- ☐ Enclosed is a copy of a non-English publication(s) \_\_\_\_\_. Pursuant to §609 of the M.P.E.P., Applicant submits the attached foreign search or examination report, which cites such non-English language publication(s).

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- ☐ Enclosed is a copy of a non-English publication(s) \_\_\_\_\_. English language publication \_\_\_\_\_ (copy enclosed) claims priority from this non-English publication.
- ☐ Enclosed is an explanation of non-English publication(s) \_\_\_\_ for which an English translation is not available.
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- ☐ Enclosed is a copy of pending patent Application Serial No. \_\_\_\_\_.

This Supplemental Information Disclosure Statement is filed after the period specified in 37 C.F.R. § 1.97(b), but before the mailing of:

- ☒ a final action under 37 C.F.R. §1.113;
- ☒ a notice of allowance under 37 C.F.R. §1.311; or
- ☒ an action that otherwise closes prosecution in this application.

In accordance with 37 C.F.R. §1.97(c) also enclosed is:

- ☒ Fee under 37 C.F.R. §1.17(p) in the amount of \$180.00; or
- ☐ Statement as specified in 37 C.F.R. §1.97(e):
  - ☐ Each item of information contained in the Information Disclosure Statement cited herein was first cited in a communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing date of the Information Disclosure Statement; or
  - ☐ No item of information contained in the Information Disclosure Statement submitted herewith was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the undersigned, having made a reasonable inquiry, no item of information contained in the Information Disclosure Statement was known to any individual designated in 37 C.F.R. §1.56(c) more than three months prior to the filing date of the Information Disclosure Statement.

It is respectfully requested that the Examiner consider the above-noted information and return an initialed copy of the attached Form PTO/SB/08 to the undersigned.


Dated: April 6, 2006

Cooley Godward LLP  
ATTN: Patent Group  
One Freedom Square  
Reston Town Center  
11951 Freedom Drive  
Reston, VA 20190-5656  
Tel: (703) 456-8000  
Fax: (703) 456-8100

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Respectfully submitted,  
**COOLEY GODWARD LLP**

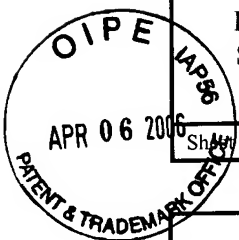
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Substitute for form 1449A/PTO

# **INFORMATION DISCLOSURE STATEMENT BY APPLICANT**

(use as many sheets as necessary)

Sheet 1 of 7

## **Complete if Known**

Application Number	10/628,136
Filing Date	July 28, 2003
First Named Inventor	Ben A. Hitt
Group Art Unit	1631
Examiner Name	Clow, Lori A.
Attorney Docket Number	CORR-004/02US

## **U.S. PATENT DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY
		Number	Kind Code <sup>2</sup> (if known)		
	34.	2002/0046198	A1	Hitt	04-18-2002
	35.	2002/0193950	A1	Gavin et al.	12-19-2002
	36.	2003/0129589	A1	Koster et al.	07-10-2003
	37.	2003/0054367	A1	Rich et al.	03-20-2003
	38.	2003/0077616	A1	Lomas	04-24-2003
	39.	4,122,343		Risby et al.	10-24-1978
	40.	5,687,716		Kaufmann et al.	11-18-1997
	41.	5,697,369		Long, Jr. et al.	12-16-1997
	42.	5,716,825		Hancock et al.	02-10-1998
	43.	5,719,060		Hutchens et al.	02-17-1998
	44.	5,790,761		Heseltine et al.	08-04-1998
	45.	5,839,438		Graettinger et al.	11-24-1998
	46.	5,905,258		Clemmer et al.	05-18-1999
	47.	5,946,640		Goodacre et al.	08-31-1999
	48.	6,025,128		Veltri et al.	02-15-2000
	49.	6,128,608		Barnhill	10-03-2000
	50.	6,157,921		Barnhill	12-05-2000
	51.	6,225,047		Hutchens et al.	05-01-2001
	52.	6,295,514	B1	Agrafiotis et al.	09-25-2001
	53.	6,329,652	B1	Windig et al.	12-11-2001
	54.	6,427,141	B1	Barnhill	07-30-2002
	55.	6,558,902	B1	Hillenkamp	05-06-2003
	56.	6,571,227	B1	Agrafiotis et al.	05-27-2003
	57.	6,579,719		Hutchens et al.	06-17-2003
	58.	6,675,104	B2	Paulse et al.	01-06-2004
	59.	6,680,203		Dasseux et al.	01-20-2004
	60.	6,844,165		Hutchens et al.	01-18-2005
	61.	6,925,389		Hitt et al.	08-02-2005

Examiner Signature		Date Considered	
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\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> Unique citation designation number.

<sup>2</sup> See attached Kinds of U.S. Patent Documents.

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		Office <sup>1</sup>	Number <sup>2</sup> (if known)	Kind Code <sup>3</sup>		
	62.		WO 01/20043	A1	Affymetrix, Inc.	03-22-2001
	63.		WO 01/31579	A2	Barnhill Technologies, LLC	05-03-2001
	64.		WO 01/31580	A2	Barnhill Technologies, LLC	05-03-2001
	65.		WO 01/84140	A2	Mischak et al.	11-08-2001
	66.		WO 02/059822	A2	Biowulf Technologies, LLC	08-01-2002
	67.		WO 02/088744	A2	Syn.X Pharma, Inc.	11-07-2002
	68.		WO 03/031031	A1	Ciphergen Biosystems, Inc. et al.	04-17-2003
	69.		WO 02/06829	A2	Correlogic Systems, Inc.	01-24-2002

OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS				T <sup>2</sup>
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	70.	ALAIYA, A. A. et al., "Classification of Human Ovarian Tumors Using Multivariate Data Analysis of Polypeptide Expression Patterns," Int. J. Cancer, 2000, pp. 731-736, Vol. 86.		
	71.	ASHFAQ, R. et al., "Evaluation of PAPNET™ System for Rescreening of Negative Cervical Smears," Diagnostic Cytopathology, 1995, pp. 31-36, Vol. 13, No. 1.		
	72.	ASTION, M. L. et al., "The Application of Backpropagation Neural Networks to Problems in Pathology and Laboratory Medicine," Arch Pathol Lab Med, October 1992, pp. 995-1001, Vol. 116.		
	73.	ATKINSON, E. N. et al., "Statistical Techniques for Diagnosing CIN Using Fluorescence Spectroscopy: SVD and CART," Journal of Cellular Biochemistry, 1995, Supplement 23, pp. 125-130.		
	74.	BABAIA, R. J. et al., "Performance of a Neural Network in Detecting Prostate Cancer in the Prostate-Specific Antigen Reflex Range of 2.5 to 4.0 ng/ml," Urology, 2000, pp. 1000-1006, Vol. 56, No. 6.		
	75.	BAILEY-KELLOGG, C. et al., "Reducing Mass Degeneracy in SAR by MS by Stable Isotopic Labeling," Journal of Computational Biology, 2001, pp. 19-36, Vol. 8, No. 1.		
	76.	BELIC, I. et al., "Neural Network Methodologies for Mass Spectra Recognition," Vacuum, 1997, pp. 633-637, Vol. 48, No. 7-9.		
	77.	BELIC, I., "Neural Networks Methodologies for Mass Spectra Recognition," pp. 375-380., additional details unknown.		
	78.	BERIKOV, V. B. et al., "Regression Trees for Analysis of Mutational Spectra in Nucleotide Sequences," Bioinformatics," 1999, pp. 553-562, Vol. 15, Nos. 7/8.		
	79.	BREIMAN, L. et al., Classification and Regression Trees, Boca Raton, Chapman & Hall/CRC, 1984, pp. 174-265 (Ch. 6, Medical Diagnosis and Prognosis).		
	80.	CAIRNS, A. Y. et al., "Towards the Automated Prescreening of Breast X-Rays," Alistair Cairns, Department of Mathematics & Computer Science, University of Dundee, pp. 1-5.		

<sup>1</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3).

<sup>2</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document.

<sup>3</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible.

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	81.	CAPRIOLI, R. M. et al., "Molecular Imaging of Biological Samples: Localization of Peptides and Proteins Using MALDI-TOF MS," Analytical Chemistry, 1997, pp. 4751-4760, Vol. 69, No. 23.		
	82.	CHACE, D. H. et al., "Laboratory Integration and Utilization of Tandem Mass Spectrometry in Neonatal Screening: A Model for Clinical Mass Spectrometry in the Next Millennium," Acta Paediatr. Suppl. 432, 1999, pp. 45-47.		
	83.	CHRISTIAENS, B. et al., "Fully Automated Method for the Liquid Chromatographic-Tandem Mass Spectrometric Determination of Cyproterone Acetate in Human Plasma using Restricted Access Material for On-Line Sample Clean-Up", Journal of Chromatography A, 2004, pp. 105-110, Vol. 1056.		
	84.	CHUN, J. et al., "Long-term Identification of Streptomyces Using Pyrolysis Mass Spectrometry and Artificial Neural Networks," Zbl. Bakt., 1997, pp. 258-266, Vol. 285, No. 2.		
	85.	CICCHETTI, D. V., "Neural Networks and Diagnosis in the Clinical Laboratory: State of the Art," Clinical Chemistry, 1992, pp. 9-10, Vol. 38, No. 1.		
	86.	CLAYDON, M. A., et al., "The Rapid Identification of Intact Microorganisms Using Mass Spectrometry," Abstract, 1 page, [online], [retrieved on 2003-02-06]. Retrieved from the internet <URL: <a href="http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?cmd=Retrieve&amp;dh=PubMed&amp;list_uids+963...">http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?cmd=Retrieve&amp;dh=PubMed&amp;list_uids+963...</a> >.		
	87.	CRAWFORD, L. R. et al., "Computer Methods in Analytical Mass Spectrometry; Empirical Identification of Molecular Class," Analytical Chemistry, August 1968, pp. 1469-1474, Vol. 40, No. 10.		
	88.	CURRY, B. et al., "MSnet: A Neural Network That Classifies Mass Spectra," Stanford University, October, 1990, To be published in Tetrahedron Computer Methodology, pp. 1-31.		
	89.	DE BRABANDERE, V. I. et al., Isotope Dilution-Liquid Chromatography/Electrospray Ionization-Tandem Mass Spectrometry for the Determination of Serum Thyroxine as a Potential Reference Method, Rapid Communications in Mass Spectrometry, 1998, pp. 1099-1103, Vol. 12.		
	90.	DHAR, V., et al., Seven Methods for Transforming Corporate Data Into Business Intelligence, Upper Saddle River, N.J., Prentice Hall, 1997, pp. 52-76.		
	91.	DUDOIT, S. et al., "Comparison of Discrimination Methods for the Classification of Tumors using Gene Expression Data," UC Berkeley, March 7, 2000, pp. 1-51, [online], [retrieved on April 4, 2002]. Retrieved from the internet <URL: <a href="http://stat-www.berkeley.edu/users/terry/zarray/Html/discr.html">http://stat-www.berkeley.edu/users/terry/zarray/Html/discr.html</a> >.		
	92.	DUDOIT, S. et al., "Comparison of Discrimination Methods for the Classification of Tumors Using Gene Expression Data," Mathematical Sciences Research Institute, Berkeley, CA, Technical Report # 576, June 2000, pp. 1-43.		
	93.	DZEROSKI, S. et al., "Diterpene Structure Elucidation from 13C NMR-Spectra with Machine Learning," Boston, Kluwer Academic Publishers, Intelligent Data Analysis in Medicine and Pharmacology, 1997, pp. 207-225.		
	94.	EGHBALDAR, A. et al., "Identification of Structural Features from Mass Spectrometry Using a Neural Network Approach: Application to Trimethylsilyl Derivatives Used for Medical Diagnosis," J. Chem. Inf. Comput. Sci., 1996, pp. 637-643, Vol. 36, No. 4.		
	95.	FREEMAN, R. et al., "Resolution of Batch Variations in Pyrolysis Mass Spectrometry of Bacteria by the Use of Artificial Neural Network Analysis," Antonie van Leeuwenhoek, 1995, pp. 253-260, Vol. 68.		
	96.	FURLONG, J. W. et al., "Neural Network Analysis of Serial Cardiac Enzyme Data; A Clinical Application of Artificial Machine Intelligence," American Journal of Clinical Pathology, July 1991, pp. 134-141, Vol. 96, No. 1.		

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	97.	GASKELL, S. J., "Electrospray: Principles and Practice," Journal of Mass Spectrometry, 1997, pp. 677-688, Vol. 32.		
	98.	GEORGE, S. E., "A Visualization and Design Tool (AVID) for Data Mining with the Self-Organizing Feature Map," International Journal on Artificial Intelligence Tools, 2000, pp. 369-375, Vol. 9, No. 3.		
	99.	GOODACRE, R. et al. "Rapid Identification of Urinary Tract Infection Bacteria Using Hyperspectral Whole-Organism Fingerprinting and Artificial Neural Networks.," Microbiology, 1998, pp. 1157-1170, Vol. 144.		
	100.	GOODACRE, R. et al., "Correction of Mass Spectral Drift Using Artificial Neural Networks," Analytical Chemistry, 1996, pp. 271-280, Vol. 68.		
	101.	GOODACRE, R. et al., "Discrimination between Methicillin-Resistant and Methicillin-Susceptible Staphylococcus Aureus Using Pyrolysis Mass Spectrometry and Artificial Neural Networks," Journal of Antimicrobial Chemotherapy, 1998, pp. 27-34, Vol. 41.		
	102.	GOODACRE, R. et al., "Identification and Discrimination of Oral Asaccharolytic Eubacterium spp. by Pyrolysis Mass Spectrometry and Artificial Neural Networks," Current Microbiology, 1996, pp. 77-84. Vol. 32.		
	103.	GOODACRE, R. et al., "Quantitative Analysis of Multivariate Data Using Artificial Neural Networks: A Tutorial Review and Applications to the Deconvolution of Pyrolysis Mass Spectra," Zbl. Bakt., 1996, pp. 516-539, Vol. 284.		
	104.	GOODACRE, R. et al., "Sub-species Discrimination, Using Pyrolysis Mass Spectrometry and Self-organising Neural Networks, of Propionibacterium acnes Isolated from Normal Human Skin," Zbl. Bakt., 1996, pp. 501-515, Vol. 284.		
	105.	GRAY, N. A. B., "Constraints on 'Learning Machine' Classification Methods," Analytical Chemistry, December 1976, pp. 2265-2268, Vol. 48, No. 14.		
	106.	HACKETT, P. S. et al., "Rapid SELDI Biomarker Protein Profiling of Serum from Normal and Prostate Cancer Patients," American Association for Cancer Research (abstract only), March 2000, pp. 563-564, Vol. 41.		
	107.	HALKET, J. M. et al., "Deconvolution Gas Chromatography/Mass Spectrometry of Urinary Organic Acids – Potential for Pattern Recognition and Automated Identification of Metabolic Disorders," Rapid Communications in Mass Spectrometry, 1999, pp. 279-284, Vol. 13.		
	108.	HASHEMI, R. R. et al., "Identifying and Testing of Signatures for Non-Volatile Biomolecules Using Tandem Mass Spectra," SIGBIO Newsletter, December 1995, pp. 11-19, Vol. 15, No. 3.		
	109.	HAUSEN, A. et al., "Determination of Neopterin in Human Urine by Reversed-Phase High-Performance Liquid Chromatography," Journal of Chromatography, 1982, pp. 61-70, Vol. 227.		
	110.	HESS, K. R. et al., "Classification and Regression Tree Analysis of 1000 Consecutive Patients with Unknown Primary Carcinoma," Clinical Cancer Research, November 1999, pp. 3403-3410, Vol. 5.		
	111.	JAIN, A. K. et al., "Statistical Pattern Recognition: A Review," IEEE Transactions On Pattern Analysis and Machine Intelligence, January 2000, pp. 4-37, Vol. 22, No. 1.		
	112.	JELLUM, E. et al., "Mass Spectrometry in Diagnosis of Metabolic Disorders," Biomedical and Environmental Mass Spectrometry, 1988, pp. 57-62, Vol. 16.		

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	113.	JURS, P. C. et al., "Computerized Learning Machines Applied to Chemical Problems; Molecular Formula Determination from Low Resolution Mass Spectrometry," Analytical Chemistry, January 1969, pp. 21-27, Vol. 41, No. 1.		
	114.	KENYON, R. G. W. et al., "Application of Neural Networks to the Analysis of Pyrolysis Mass Spectra," Zbl. Bakt., 1997, pp. 267-277, Vol. 285.		
	115.	KOHAVI, R. et al., "Wrappers for Feature Subset Selection," Artificial Intelligence, 1997, pp. 273-324, Vol. 97.		
	116.	KOHNO, H. et al., "Quantitative Analysis of Scintiscan Matrices by Computer," Japanese Journal of Medical Electronics and Biological Engineering, August 1974, pp. 22-29.		English Abstract
	117.	LEWIS, R. J., "An Introduction to Classification and Regression Tree (CART) Analysis," presented at 2000 Annual Meeting of the Society for Academic Emergency Medicine in San Francisco, California, 2000, pp. 1-14.		
	118.	LIOTTA, L. et al., "Molecular Profiling of Human Cancer," Nature Genetics, October 2000, pp. 48-56, Vol. 1.		
	119.	LOCKHART, D. J. et al., "Genomics, Gene Expression and DNA Arrays," Nature, June 2000, pp. 827-836, Vol. 405.		
	120.	LOWRY, S. R. et al., "Comparison of Various K-Nearest Neighbor Voting Schemes with the Self-Training Interpretive and Retrieval System for Identifying Molecular Substructures from Mass Spectral Data," Analytical Chemistry, October 1977, pp. 1720-1722, Vol. 49, No. 12.		
	121.	LUO, Y. et al., Quantification and Confirmation of Flunixin in Equine Plasma by Liquid Chromatograph - Quadrupole Time-Of-Flight Tandem Mass Spectrometry, Journal of Chromatography B, 2004, pp. 173-184, Vol. 801.		
	122.	MACFIE, H. J. H. et al., "Use of Canonical Variates Analysis in Differentiation of Bacteria by Pyrolysis Gas-Liquid Chromatography," Journal of General Microbiology, 1978, pp. 67-74, Vol. 104.		
	123.	MALINS, D. C. et al., "Models of DNA Structure Achieve Almost Perfect Discrimination Between Normal Prostate, Benign Prostatic Hyperplasia (BPH), and Adenocarcinoma and Have a High Potential for Predicting BPH and Prostate Cancer," Proceedings of the National Academy of Sciences, January 1997, pp. 259-264, Vol. 94.		
	124.	MARVIN, L. F. et al., "Characterization of a Novel Sepia Officinalis Neuropeptide using MALDI-TOL MS and Post-Source Decay Analysis," Peptides, 2001, pp. 1391-1396, Vol. 22.		
	125.	MEUZELAAR, H. L. C. et al., "A Technique for Fast and Reproducible Fingerprinting of Bacteria by Pyrolysis Mass Spectrometry," Analytical Chemistry, March 1973, pp. 587-590, Vol. 45, No. 3.		
	126.	MEYER, B. et al., "Identification of the 1H-NMR Spectra of Complex Oligosaccharides with Artificial Neural Networks," Science, February 1991, pp. 542-544, Vol. 251.		
	127.	Microsoft Press, Computer Dictionary, Second Edition, The Comprehensive Standard for Business, School, Library, and Home, Microsoft Press, Redmond, WA, 1994, pp. 87 and 408.		
	128.	MOLER, E. J. et al., "Analysis of Molecular Profile Data Using Generative and Discriminative Methods," Physiol. Genomics, December, 2000, pp. 109-126, Vol. 4.		
	129.	NIKULIN, A. E. et al., "Near-Optimal Region Selection for Feature Space Reduction: Novel Preprocessing Methods for Classifying MR Spectra," NMR Biomedicine, 1998, pp. 209-216, Vol. 11.		
	130.	NILSSON, T. et al., "Classification of Species in the Genus Penicillium by Curie Point Pyrolysis/Mass Spectrometry Followed by Multivariate Analysis and Artificial Neural Networks," Journal of Mass Spectrometry, 1996, pp. 1422-1428, Vol. 31.		
	131.	OH, J. M. C. et al., "A Database of Protein Expression in Lung Cancer," Proteomics, 2001, pp. 1303-1319, Vol. 1.		



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	132.	PEI, M. et al. "Feature Extraction Using Genetic Algorithms," Proceedings of the 1st International Symposium on Intelligent Data Engineering and Learning, IDEAL '98, Oct. 1998, pp. 371-384, Springer, Hong Kong.		
	133.	PETRICOIN, E. F., III et al., "Serum Proteomic Patterns for Detection of Prostate Cancer," Journal of the National Cancer Institute, October 16, 2002, pp. 1576-1578, Vol. 94, No. 20.		
	134.	PRIOR, C. et al., "Potential of Urinary Neopterin Excretion in Differentiating Chronic Non-A, Non-B Hepatitis from Fatty Liver," The Lancet, November 28, 1987, pp. 1235-1237.		
	135.	REED, J. "Trends in Commercial Bioinformatics," Oscar Gruss Biotechnology Review, March 2000, pp. 1-20.		
	136.	REIBNEGGER, G. et al., "Neural Networks as a Tool for Utilizing Laboratory Information: Comparison with Linear Discriminant Analysis and with Classification and Regression Trees," Proceedings of the National Academy of Sciences, December 1991, pp. 11426-11430, Vol. 88.		
	137.	RICKETTS, I. W. et al., "Towards the Automated Prescreening of Cervical Smears," Mar. 11, 1992, Applications of Image Processing in Mass Health Screening, IEE Colloquium, pp. 1-4.		
	138.	ROSES, A.D., "Pharmacogenetics and the Practice of Medicine," Nature, June 15, 2000, pp. 857-865, Vol. 405.		
	139.	Salford Systems, "Salford Systems White Paper Series," pp. 1-17 [online], [retrieved on 2000-10-17]. Retrieved from the internet: <URL: <a href="http://www.salford-systems.com/whitepaper.html">http://www.salford-systems.com/whitepaper.html</a> >.		
	140.	SCHROLL, G. et al., "Applications of Artificial Intelligence for Chemical Inference, III. Aliphatic Ethers Diagnosed by Their Low-Resolution Mass Spectra and Nuclear Magnetic Resonance Data," Journal of the American Chemical Society, December 17, 1969, pp. 7440-7445.		
	141.	SHAW, R. A. et al., "Infrared Spectroscopy of Exfoliated Cervical Cell Specimens," Analytical and Quantitative Cytology and Histology, August 1999, pp. 292-302, Vol. 21, No. 4.		
	142.	SHEVCHENKO, A. et al., "MALDI Quadupole Time-of-Flight Mass Spectrometry: A Powerful Tool for Proteomic Research," Analytical Chemistry, May 1, 2000, pp. 2132-2141, Vol. 72, No. 9.		
	143.	STROUTHOPOULOS, C. et al., "PLA Using RLSA and a Neural Network," Engineering Applications of Artificial Intelligence, 1999, pp. 119-138, Vol. 12.		
	144.	TAYLOR, J. et al., "The Deconvolution of Pyrolysis Mass Spectra Using Genetic Programming: Application to the Identification of Some Eubacterium Species," FEMS Microbiology Letters, 1998, pp. 237-246, Vol. 160.		
	145.	TONG, C. S. et al., "Mass Spectral Search method using the Neural Network approach," International Joint Conference on Neural Networks, Washington, DC July 10-16, 1999, Proceedings, Vol. 6 of 6, pp. 3962-3967.		
	146.	TONG, C. S. et al., "Mass spectral search method using the neural network approach," Chemometrics and Intelligent Laboratory Systems, 1999, pp. 135-150, Vol. 49.		
	147.	VON EGGELING, F. et al., "Mass Spectrometry Meets Chip Technology: A New Proteomic Tool in Cancer Research?," Electrophoresis, 2001, pp. 2898-2902, Vol. 22, No. 14.		
	148.	VOORHEES, K. J. et al., "Approaches to Pyrolysis/Mass Spectrometry Data Analysis of Biological Materials," in: Meuzelaar, H. L. C., Computer-Enhanced Analytical Spectroscopy, Vol. 2, New York, Plenum Press, 1990, pp. 259-275.		
	149.	WERTHER, W. et al., "Classification of Mass Spectra; a Comparison of Yes/No Classification Methods for the Recognition of Simple Structural Properties," Chemometrics and Intelligent Laboratory Systems, 1994, pp. 63-76, Vol. 22.		

Substitute for form 1449A/PTO  <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  <i>(use as many sheets as necessary)</i>		<i>Complete if Known</i>	
		Application Number	10/628,136
		Filing Date	July 28, 2003
		First Named Inventor	Ben A. Hitt
		Group Art Unit	1631
		Examiner Name	Unassigned
Sheet 7 of 7	Attorney Docket Number		CORR-004/02US

150.	WYTHOFF, B. J. et al., "Spectral Peak Verification and Recognition Using a Multilayered Neural Network," Analytical Chemistry, December 15, 1990, pp. 2702-2709, Vol. 62, No. 24.	
151.	XIAO, Z. et al., Quantitation of Serum Prostate-Specific Membrane Antigen by a Novel Protein Biochip Immunoassay Discriminates Benign from Malignant Prostate Disease, Cancer Research, August 15, 2001, pp. 6029-6033, Vol. 61.	
152.	YAO, X. et al. "Evolving Artificial Neural Networks for Medical Applications," Proceedings of the First Korea-Australia Joint Workshop on Evolutionary Computation, September 1995, pp. 1-16.	
153.	YATES, J. R. III, "Mass Spectrometry and the Age of the Proteome," Journal of Mass Spectrometry, 1998, pp. 1-19, Vol. 33.	
154.	ZHANG, Z. "Combining Multiple Biomarkers in Clinical Diagnostics – A Review of Methods and Issues," Center for Biomarker Discovery, Department of Pathology, Johns Hopkins Medical Institutions, 14 pages.	
155.	ZHANG, Z. et al., "Proteomics and Bioinformatics Approaches for Identification of Serum Biomarkers to Detect Breast Cancer," Clinical Chemistry, 2002, pp. 1296-1304, Vol. 48, No. 8.	

Examiner Signature		Date Considered	
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\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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